



Nordic Hydrographic Commission

Final Minutes

The 63rd Nordic Hydrographic Commission Meeting

9 – 11 April 2019, Helsinki, Finland

A. Opening Formalities

A.1 Opening of Conference

Docs:

NHC63_A.1_List of Participants

The NHC Chair Mr. Rainer Mustaniemi (Finland) opened the 63rd Nordic Hydrographic Conference and warmly welcomed delegates from Denmark, Iceland, Norway and Sweden to Helsinki. Attendance of Director Mr. Abri Kampfer from the IHO Secretariat was appreciated by the meeting as well.

A.2 Welcome from the host country

Docs:

NHC63_A.2_NHC63 Program

NHC63_A.2.1_NHC63_Program for Open Session

The Chair presented the program for the Conference and for the Open Session at Thursday afternoon. The host provide some administrative and logistical information.

A.3 Adoption of the Agenda

Docs:

NHC63_A.3_Draft Agenda

The meeting approved the draft agenda with one new agenda item C.5 'Status of Project ADAPT' to present by Sweden.

A.4 Minutes and actions from NHC62

Docs:

NHC63_A.4.1_NHC62_Final Minutes

NHC63_A.4.2_Status of NHC62 List of Actions

The Chair noted the minutes of the NHC62 already been approved by member states.

The meeting reviewed the status of actions from NHC62. Ongoing actions e.g. 3, 7, 9, 12, 13 will be discussed during the meeting.

Action 12 (Martin Jakobsson to participate meeting for discussing CSB and Seabed 2000) was not possible to carry out for NHC63 meeting, due to the schedule reasons.

B. IHO Work Programme 1 - "Corporate affairs"



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B.1 Report from the IHO secretariat and outcome of the Council 2 and IRCC10 meeting

Docs:

NHC63_B.1_Report from the IHO Secretariat+ Presentation

IHO CL 44/2018 (IRCC 10) [Link](#)

IHO CL51/2018 (Council 2) [Link](#)

IRCC10_NHC presentation [Link](#)

IHO Director Abri Kampfner gave a presentation about the status of IHO Work Programmes emphasizing the importance of S-100 awareness by all IHO Member States. Some member states do not even produce ENCs based on the S-57 standard. It is very important for HOs to contribute the work of various IHO WGs. The need for common discussions of Commission strategic objectives for S-100 was identified.

The Director noted that the Crowd Source Bathymetry is coming more important and invited NHC MSs to identify new sources of bathymetric survey data to be facilitate the further completion of the DCDB data holdings. Crowdsourced Bathymetry Working Group (CSBWG) to provide guidelines on the collection and use of crowdsourced bathymetry and developed the draft IHO publication B-12.

NHC MSs were invited to consider the future invitation of Seabed 2030 project representatives.

NHC MSs are well presented in the IHO Council. The Director asked the NHC to consider how reporting terms would be synchronized with the Council Chair report to the Assembly which is largely based on the annual IRCC Chair report put forward to the Council.

A new on-line voting and IHO document update service is on place for the IHO Member States. IHO Member States can now submit and update information i.e. IHO publications C-55 and P-5 directly with IHO Online form system. Possibility to include ECDIS-backup arrangements for on-line update service requested by the meeting.

There is a new MSI service provider Iridium Satellite LLC, which is recognized as new service provider for Maritime Mobile Satellite Services.

Not all IHO Member States provide CATZOC information today. The importance of CATZOC information has been stressed by Intertanko pointing out that CATZOC information are widely in use for risk analysis in tanker fleet operations.

A new IHO homepage and an IHO emblem with creative design have been developed by the Secretariat. The Secretariat has already undertaken the preparations for the centenary celebrations of the International Hydrographic Organization ranging from 2019- 2021.

Action 1: To consider to add ECDIS backup arrangements also as on-line updating services (IHO Sec-2019).

Action 2: To prepare NHC report to Assembly 2, recognizing IRCC report to Assembly 2 (NHC Chair-Jan 2020).

Action 3: Nordic member states to establish CATZOC policies and provide information to DQWG (All MS- Dec 2019).

B.1.1 Structure for National Reports to Regional Hydrographic Commissions

Docs:

IRCC10-06.2-Annex A-draft IHO Resolution 2-1997 [Link](#)



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The secretary Jarmo Mäkinen presented NHC comments to the IRCC10 on the Resolution 2/1997 (IRCC10 action). The Chair noted about modifications to the paragraph six made by the Council. The meeting agreed to follow the Res 2/1997 recommendations in national reports.

Norway proposed to skip oral presentations of the national reports in order to give more room for important issues in the agenda. The meeting welcomed the proposal with a question if there were any comments or questions related to national reports.

DECISION 1: Member states to follow the IHO Res 2/1997 recommendations in their national reports to RHC.

B.1.2 IHO Strategy review, outcome from Nordic workshop

Docs:

B.1.2_ Future role of Nordic HO's_DK

Denmark presented outcome of the Nordic Strategic workshop in March 2019 in Malmoe. The purpose of the meeting was to collect Nordic HO's strategic views about operational environment and customer needs looking the timeframe up to 2026/2030 and to support IHO SPRWG work. The meeting decided to further study fore coming customer needs by sending a questionnaire to the stakeholders. Norway will host the next NHC Strategic workshop in January 2020.

Action 4: To draft and send a questionnaire about data sets and services to maritime shipping and other marine users (*DK-Apr 2019*).

Action5: NHC MS to respond on the questionnaire above (*DK- May 2019*).

Action 6: Denmark to send out the questionnaire about the results from the NHC Strategic workshop in Malmoe in order to have updates and more operational approach (*DK- Jun 2019*).

Action 7: NHC MS to respond on the questionnaire above (*All MS-Aug 2019*).

Action 8: To prepare a draft questionnaire to the end users on their future requirements. (*DK- Aug 2019*)

Action 9: To send their comments for draft above (*All MS- Sep 2019*).

Action 10: To finalize questionnaire to the end users (*DK- Oct 2019*).

Action 11: All MS to send out the questionnaire to the end users (*All MS- Oct 2019*).

Action 12: To send the results of the questionnaires to Denmark (*All MS- Nov 2019*).

Action 13: To plan a strategic workshop and send out an invitation to the NHC MS (*DK-Dec 2019*).

Action 14: To host the strategic workshop (*NO-Jan 2020*).

Action 15: To provide an input paper to NHC64 (*DK- NHC64*).

Action 16: To provide Nordic Strategic aspects to IHO SPRWG. Requirements/demands (red/yellow notes). (*NO, DK- Apr 2019*).



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B.2 National Report of Denmark

Docs:

*NHC63_B.2_DK_National Report Denmark
Presentation (DK)*

The Commission noted the national report of Denmark.

B.3 National Report of Finland

Docs:

*NHC63_B.3_FI_National Report Finland
Presentation (FI)*

The Commission noted the national report of Finland.

B.4 National Report of Iceland

Docs:

NHC63_B.4_IS_National Report Iceland

The Commission noted the national report of Island.

B.5 National Report of Norway

Docs:

*NHC63_B.5_NO_National Report Norway
Presentation (NO)*

The Commission noted the national report of Norway.

B.6 National Report of Sweden

Docs:

*NHC63_B.6_SE_National Report Sweden
Presentation (SE)*

The Commission noted the national report of Sweden.

B.7 Selection of the NHC Council member 2020-2022

Docs:

NHC63_B.7 link to NHC Statutes

The Chair referred the NHC statutes about selection of the IHO Council member from the NHC. The meeting noted about the lack of tonnage list information and therefore the selection timeframe stated in the NHC Statutes is difficult to follow here. The meeting agreed actions in order to select NHC council member for 2020 – 2022.

Action 17: To ask NHC candidates for IHO Council (*NHC Chair- Dec 2019*).

Action 18: To inform NHC Chair their position for candidate for the next Council (*All MS-15 Jan 2020*).

Action 19: To organize voting (if needed) and inform member states and IHO of the next NHC Council member (*NHC Chair-31 Jan 2020*).

B.8 Status Report from the IHO_EU Network WG (IENWG)

Docs:

NHC63_NO_IENWG Report



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Norway reported about IHO-EU Network meetings (4 meetings in reporting period) and Coastal Mapping, EMODnet Phase 3, Maritime spatial planning as main activities. There was a discussion, how to get HO's views to be noticed in the IENWG.

Norway proposed a new person to represent the NHC in the IENWG and asked if there is anyone from other MS willing to represent the NHC in the IENWG. The meeting agreed Norway to continue as a representative from the NHC.

C. IHO Work Programme 2 - "Hydrographic Services and Standards"

C.1 Report Status and plans of nautical publications

There was a discussion on whether it would be necessary to publish on INT1 for ECDIS. However, none of the Nordic countries has yet considered to produce INT1 for ECDIS. The meeting agreed to maintain the related action to the NCPEG (see C.3.1).

C.1.2 Production and distribution of Notices to Mariners and Chart corrections

Denmark asked about the processes and services for NtMs in use in other NHC Member states.

ACTION 20: To send a questionnaire concerning Notices to Mariners for NHC members (DK-Apr 2019)

C.1.3 White paper-New Ship Route System

Docs:

NHC63_C.1.3_White paper- New Ship Route System

Denmark presented a white paper for the new route system in the Skagerrak and Kattegat. The IMO gave the final approval in May 2018 with implementation on 1. July 2020. Related new printed and electronic chart editions will contain also additional depth information. The information paper shall be included in the NHC report to the IRCC11.

C.1.3B Kattegat TSS

Docs:

NHC63_C.1.3B_INF_Kattegat TSS_SE

Sweden presented information paper dedicated specially for leisure craft. Sweden, Denmark and Norway will provide common information paper of Kattegat TSS. The meeting noted that there are also many German and Polish pleasure boats in the Kattegat and therefore it would be good to present this information paper also at next BSHC –meeting in September 2019.

Action 21: To make an information paper for Leisure craft of new TSS in Kattegat. (SE-Nov 2019).

Action 22: To present KATTEGAT TSS info paper in the next BSHC meeting (SE-BSHC24).

C.2 Crowdsourced bathymetry WG and Seabed 2030 project

Docs:

Presentation (NO)



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Norway presented the work of IHO Crowdsource Bathymetry WG (CSBWG) and GEBCO Seabed 2030 project, including the interesting use case from the Canadian Hydrographic Service. The IHO publication B-12 (Guidance for Crowdsource Bathymetry) has been approved (IHO CL11/2019) by IHO Member States.

C.3 NHC Expert Groups

C.3.1 Nordic Chart Production Expert Group (NCPEG)

The Meeting tasked the NCPEG to draft ToR and RoP covering also S-100 issues (products). The approved documents will be available at IHO website. Sweden is chairing the group.

Action 23: NCPEG to make a draft ToR and RoP to be approved by the next NHC (SE-NHC64).

Action 24: NCPEG to consider need of INT1 for ECDIS (SE- NHC64).

C.3.2 Nordic Survey Expert Group (NSEG). Meetings 2019- status

Docs:

NHC63_C.3.2_NSEG Report_FI

Finland presented the outcome of the NSEG meeting in March 2019 in Helsinki. Participants from Denmark, Finland and Sweden were present and role and scope of the expert group was under discussion (see doc. C.3.2). The Meeting tasked the NSEG to draft ToR and RoP for approval to the next NHC meeting. Expert group will meet next time in Denmark (Chair).

Action 25: NSEG to draft ToR and RoP to be approved by next NHC (DK- NHC65).

C.4 Hydrographic Data Management and Chart Production System (MERTA+AHTI)

Docs:

Presentation MERTA (FI)

Presentation AHTI (FI)

Finland introduced two development projects using the CARIS software:

- MERTA: Bathymetric Data Management System.
- AHTI: Nautical Chart Data Management and Production System.

The status of the MERTA and AHTI projects was presented by Finland. There has been some delays in both projects. The migration of bathymetric data to the MERTA is in progress. The aim is that the progress of migration follows at least the schedule of the project of new vertical chart reference N2000 (BSCD 2000). The implementation- and deployment phase of AHTI is going on. The current plan to have the new system on use is 1st of May 2019.

C.5 ADAPT -project

Docs:

Presentation (SE)

Sweden presented ADAPT project. The project aims to optimizing seagoing public transport in an archipelagic environment in Stockholm and in Åland archipelago. The ADAPT include



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partners from Sweden and Åland (Finland) and is supported by EU, assuring depth of fairways for archipelago fairways.

D. IHO Work Programme 3 - "Inter Regional Coordination and Support"

D.1 Outcome of the WENDWG9 -meeting

Docs:

NHC63_D1_WEND report SE

Sweden (as NHC WEND representative) reported from WENDWG9 –meeting in Brest highlighting issues below:

- ENC producers are encouraged to participate Seabed 2030 initiative.
- RENCs agreed to investigate possibility of developing joint licensing framework.
- To add the new RENC, EA-RECC in the ENC flow diagram.
- IHO resolution 1/2018 (THE ELIMINATION OF OVERLAPPING ENC DATA IN AREAS OF DEMONSTRABLE RISK TO THE SAFETY OF NAVIGATION).
- ENC coverage report, including ports not covered. RHCs to monitor ENC coverage. It is up to the RHCs to make their own assessment of the level of navigational risk for ENC overlaps- taking account IHO one year clock after reporting (NHC excluded).
- Development of the IHO ENC Coverage Catalogue with the support provided by the RENCs, and noted the alignment under development with INTOGIS II.
- Drafting group to expand WEND TORs: to add WENS (Worldwide Electronic Navigational Services). Drafting group (NO, IT, FR) to create general principles before next WEND.

During the meeting navigational significant overlaps was discussed. There will be some practical reasons to increase existing overlap buffer-limit (5 m), especially in scale bands 1, 2 and 3.

Action 26: To make a proposal to WENDWG about extended buffer limit for ENC overlaps (5 m), especially in smaller scale bands (1, 2 and 3) (*SE-WENDWG10*).

D.2 E-Navigation

Docs:

Presentation (FI)

Finland presented Smart Marine Fairway and S-102 Bathymetric Surface development – project. The project was completed at the end of year 2018, but preparations for continuation of the studies are on their way in the Agency.

D.3 Reports of RENC operations

Docs:

NHC63_D.3_NO PRIMAR Report+presentation (NO)

NHC63_D.3.1_IC-ENC Report+ presentation (DK)

The Primar Annual Report 2018 was noted by the Commission.
The Status Report of IC-ENC RENC was noted by the Commission.

D.3.2 Primar S-100 development plans

Docs:

Presentation (NO)



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Norway presented the ongoing Primar S-100 development projects:

- S-102 data upload, validation and distribution.
- S-102 in an operational environment (S-102 Demonstrator project)
- S-100 Data as a Service. – Project in cooperation with CARIS and CHS
- S-101 data upload, validation and distribution.
- S-100 part 15 Data Protection (new S-63)

D.4 ENC's to leisure markets- Questionnaire

Docs:

NHC63_D.4_Digital products for the leisure market (DK)

At the NHC62 meeting, it was decided that Denmark should send out a questionnaire to the attendees to the NHC-meeting about nautical digital products for the leisure market. Denmark have received answers from all NHC MSs. Denmark presented the results of the questionnaire. The ensuing discussions included the difference between SOLAS and NON SOLAS and different license models between NHC MSs. How to make it easier from a regional perspective for private companies to get access to and sell digital products for the leisure market?

Action 27: To prepare an information paper about different NHC license models (DK-NHC 64).

D.5 MSDIWG

Docs:

NHC63_D.5_MSDIWG Report (DK)

MSDIWG Chair Jens Peter Weiss Hartman made a status presentation of MSDIWG. The report contained status and actions for the IHO MSDIWG and the BS-NSMSDIWG. He also reminded for a MSDI video in the IHO website.

Next meeting (MSDIWG11) will take place as an Open Forum meeting with an integrated OGC Marine Domain WG part in 2020 in Rostock, Germany.

D.6 Data Policy for HO's

Docs:

NHC63_D.6_Data Policy for HO's (NO)

Norway presented a paper. The Arctic Regional Hydrographic Commission have put in place an action to review data policy for use in hydrographic services and how to support crowdsource bathymetry. NHC MSs have different practices and policies for delivering hydrographic data, but maybe not always in written form. There is a need for more clear definitions. HO's do not have responsibility, when there is no full coverage of surveys. But the HOs have a duty to communicate data quality by using CATZOC information.

D.7 IRCC11 preparations

Docs:

IRCC10 IRCC10-List_Recommendations to RHCs

Finland will start to prepare a first draft of NHC report to IRCC11 and send draft to Island. Island as a new chair will finalize report and ask comments from NHC before sending to IRCC. Some items to include to the report: New Ship Route system, Outcome of Nordic strategic workshop, Data policy and quality, Crowdsource bathymetry.



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E. Any other business

E.1 Reorganization process in NHS

Docs:

Presentation (NO)

Norway informed restructure in NHS in 2019. Key objectives were to separate the role of authority and production, reduce number of layers in the organization, be prepared for the change in legislation lifting restrictions on data <30 m depth and improve data management and automated production.

E.2 New management implemented at the Swedish HO

Docs:

NHC63_E.2_New management structure SE

Sweden informed about new management structure at the Swedish HO. New structure has implemented during 2018, including three management blocks; process-, information-, and system management. The main reason has been to divide system management from information and process management.

F. Election of new Chair and Vice-Chair

G. Place and date of next Meeting

Since Iceland will be hosting both the NHC meeting and the NSHC34 meeting, it was proposed to organize back to back meetings in order reduce travel cost (4 out of 5 MS of the NHC participate also NSHC meeting. Meetings in March 2020 was provisionally discussed.

Action 28: To inform date and place for the next NHC meeting (*IS-ASAP*)

H. Review of NHC63 List of Actions

The participants agreed on the list of decisions & actions during the review made at the end of the meeting.

I. Closing the meeting

The Chair thanked all delegations and participants for the active contribution to the meeting. The Chair closed the meeting at 12:00.